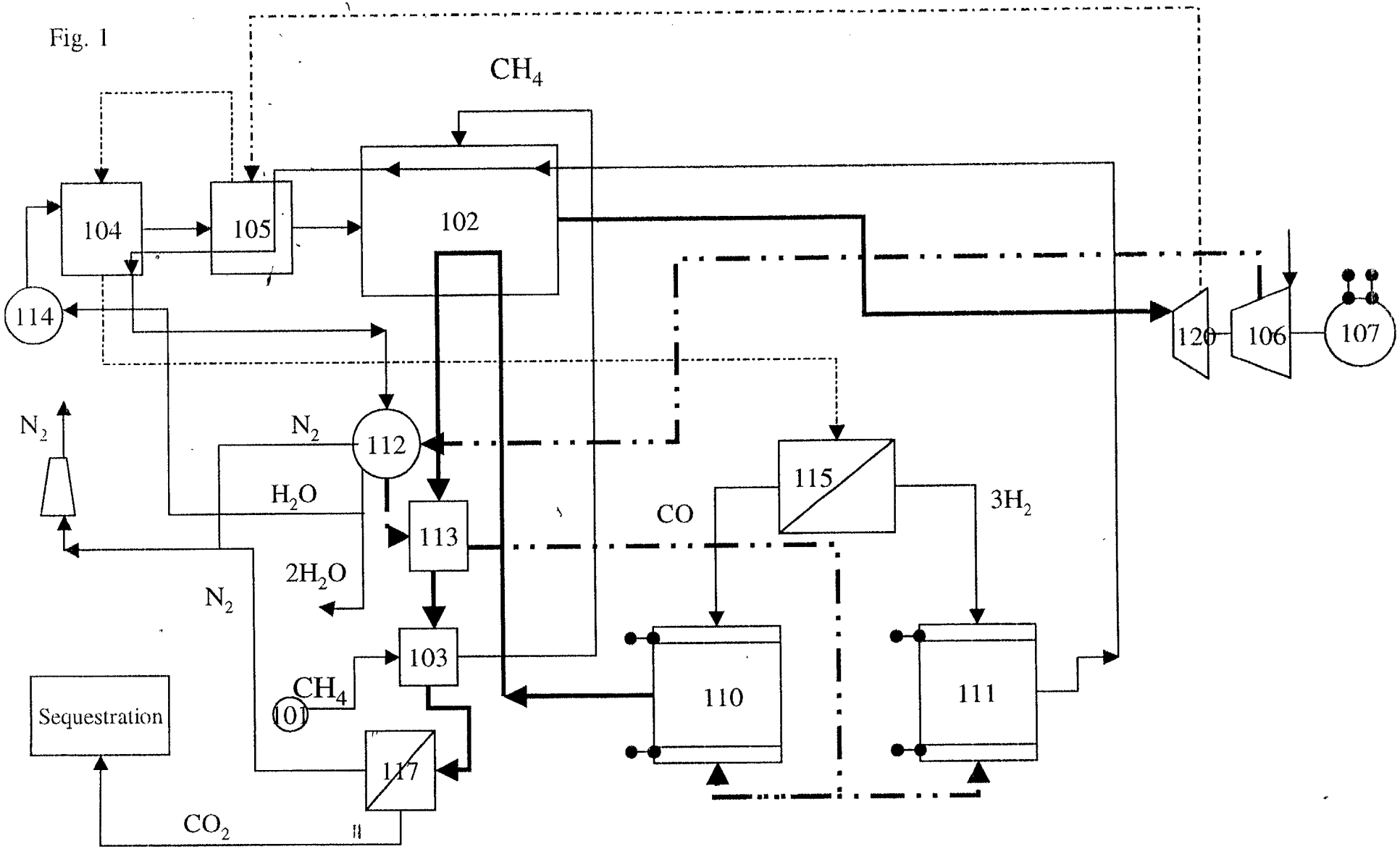
Fig. 1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105
102
114
120
106
107
N2
N2
112
H2O
115
CO
3H2
113
2H2O
N2
103
CH4
101
Sequestration
110
111
117
CO2
100

Fig. 2

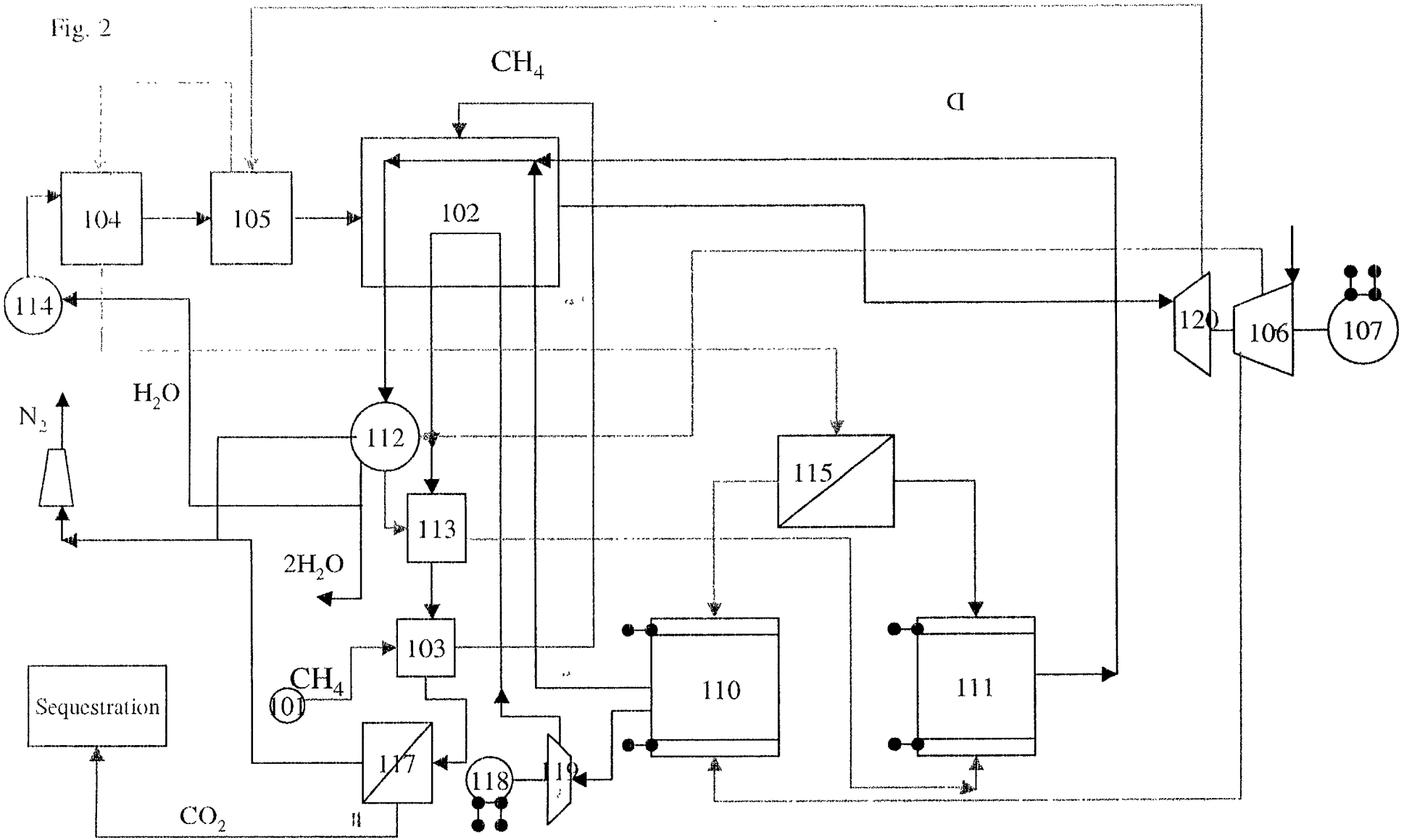
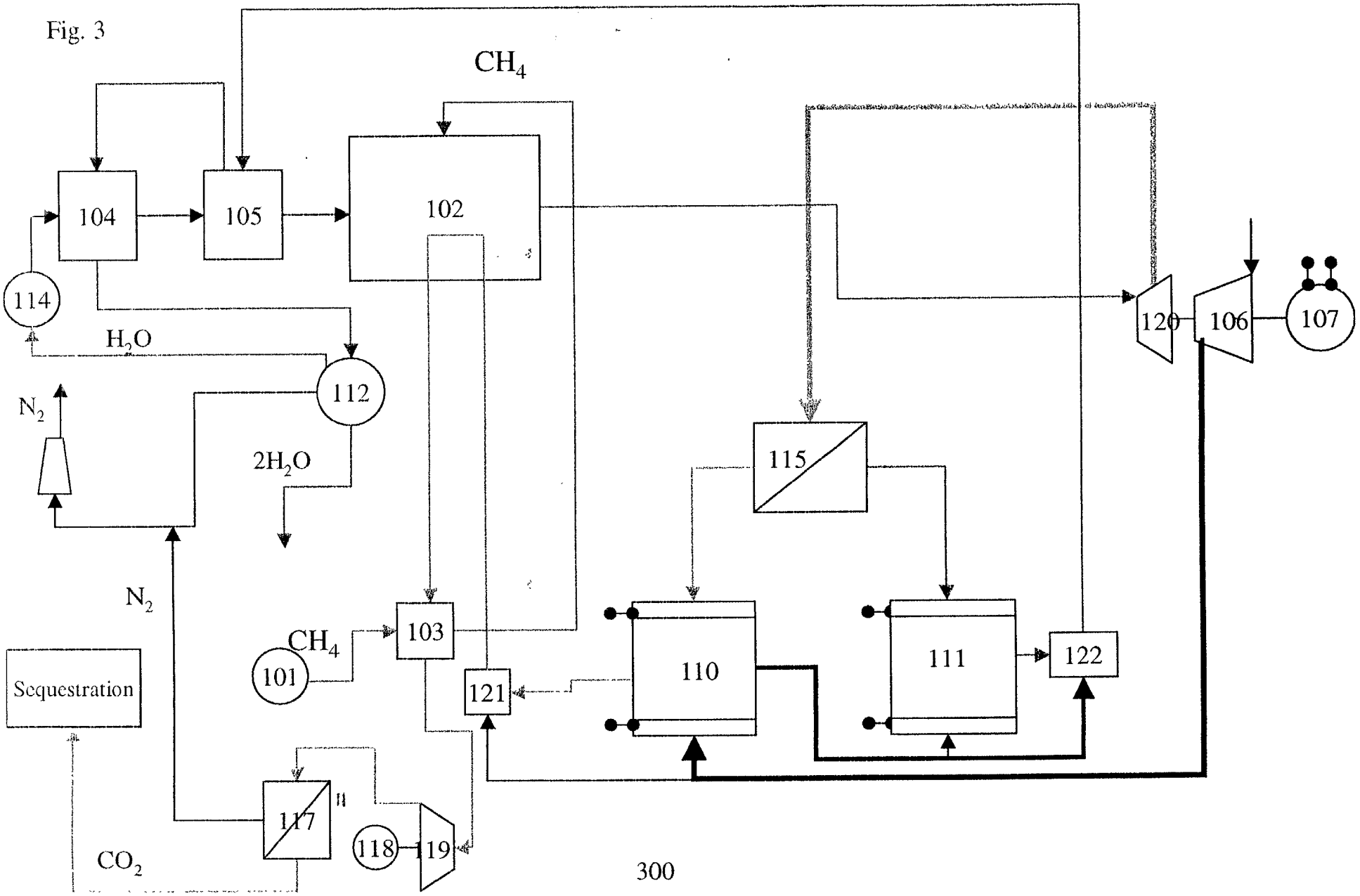

CH4
104
105
102
114
120
106
107
H2O
N2
112
115
113
2H2O
103
CH4
101
Sequestration
110
111
117
118
119
CO2
200

Fig. 3


CH4
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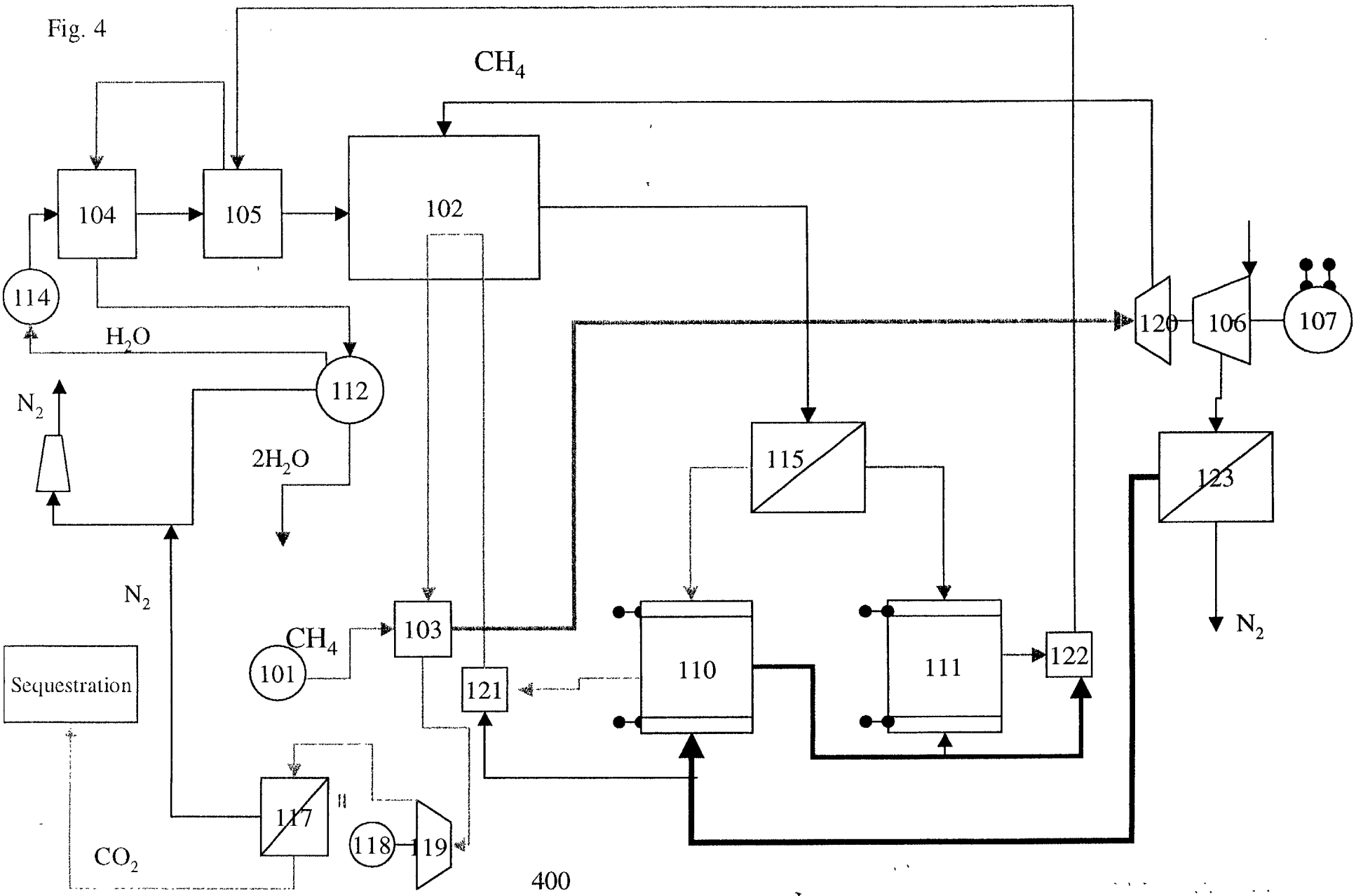
105
102
114
H2O
112
N2
2H2O
115
120
106
107
N2
CH4
103
101
Sequestration
110
111
122
121
117
118
119
CO2
300

Fig. 4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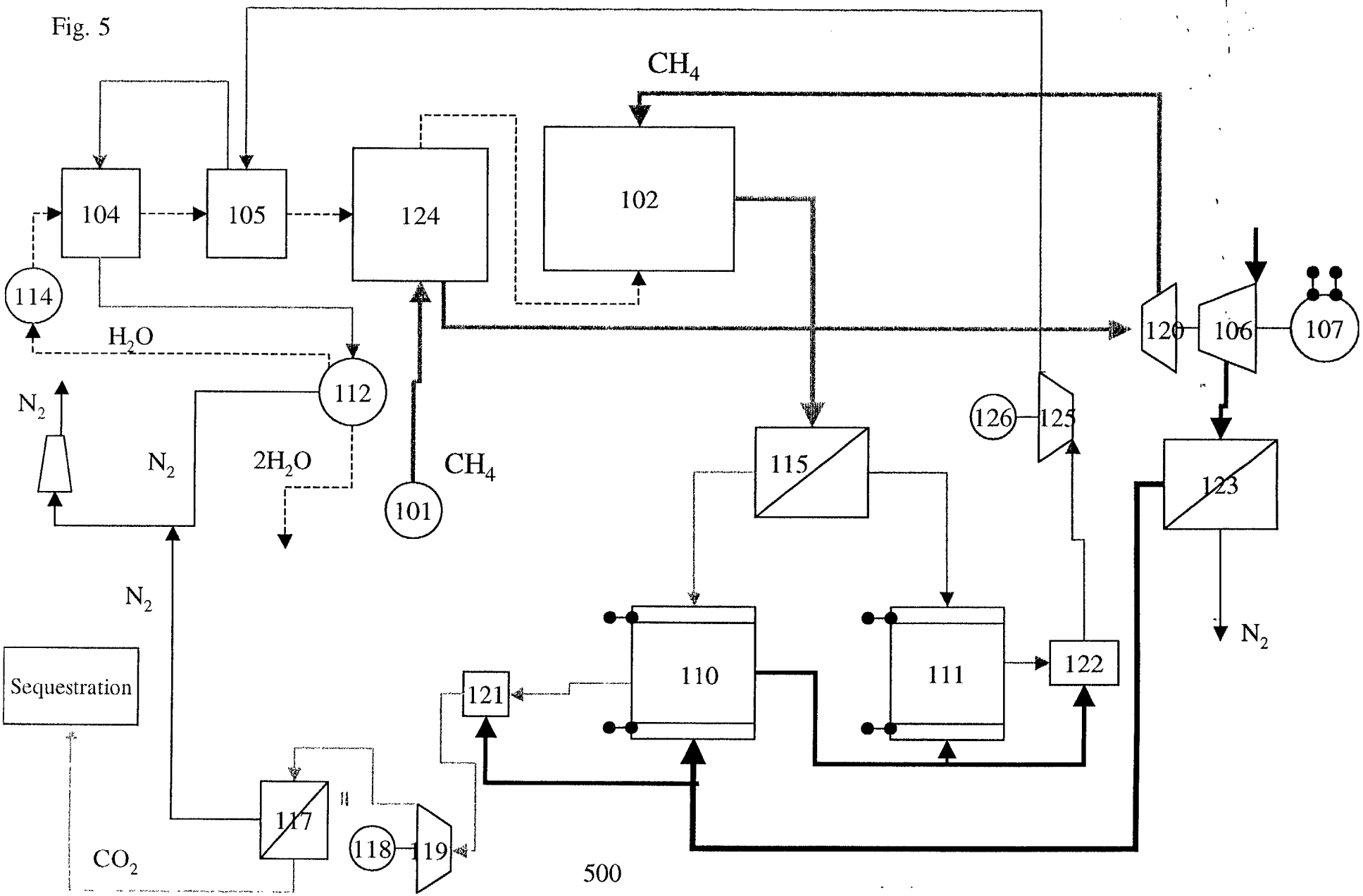
104
105
102
114
H2O
112
N2
2H2O
120
106
107
115
123
N2
N2
CH4
103
101
Sequestration
121
110
111
122
117
118
119
CO2
400

Fig. 5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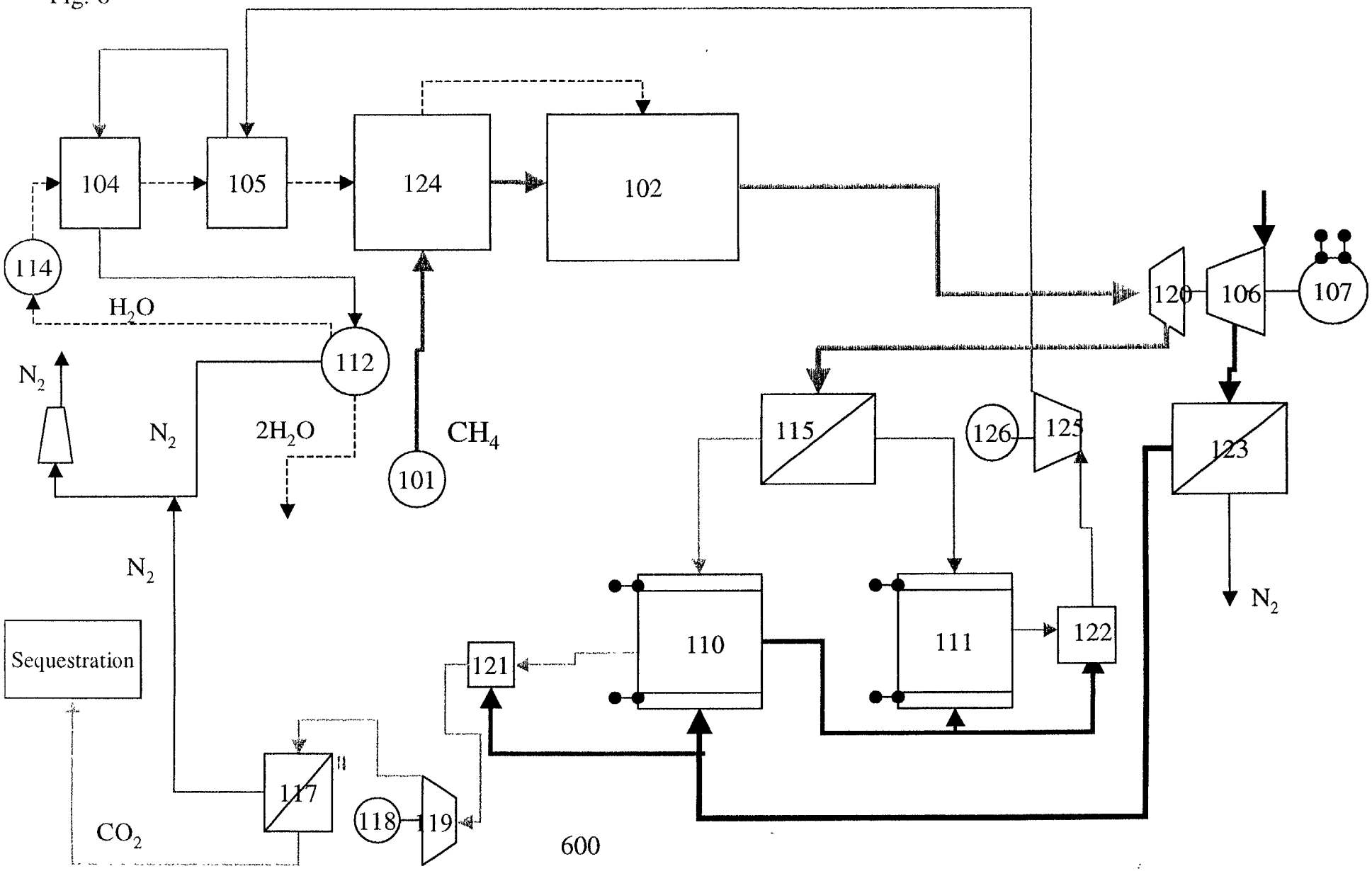
114
H2O
112
120
106
107
N2
N2
2H2O
CH4
101
115
126
125
123
N2
N2
Sequestration
110
111
122
121
117
118
119
CO2
500

Fig. 6


104
105
124
102
114
H_2O
112
N_2
N_2
$2H_2O$
CH_4
101
120
106
107
115
126
125
123
N_2
N_2
Sequestration
110
111
122
121
117
118
119
CO_2
600